



OTVARC

Dec. 1982

OREGON TUALATIN VALLEY AMATEUR RADIO CLUB

Po Box 5132 Beaverton, Oregon 97006

Meeting: Wednesday, December 15 at 7:00 pm

PGE BUILDING-MURRAY AND SCHOLLS FERRY ROAD-BEAVERTON



XMAS

PARTY



Here we go again with a fun-filled evening of Christmas frivolity. The social committee is hard at work making sure that you and yours will have an enjoyable time at our fifth annual get-together. The hall will be nicely done up in the traditional way and we will have a live tree to not only serve as decoration but it will be given as a prize as well.

There will be a number of nice prizes available for you and along with candlelight, music, good food and friendship, this should turn out to be our best ever holiday party. This is a buffet affair so please bring your favorite salad, dessert, cold cuts, cheese tray or whatever light buffet item you like. We ask that you label your dish or platter. This is a BYOB if that is your desire. The club is furnishing all eating utensils as well as a punch, coffee, mixers and ice. The party is an adult, member only affair however teen family members and teen club members are certainly welcome.

When: Saturday, December 18. Time: We start at 7:00 pm.
Where: The Beaverton Oddfellows Hall which is on Stott St. and Farmington. The hall is right behind the DQ which fronts on Farmington. Stott runs from Farmington to the Beaverton High swimming pool building.

We plan on having a slide projector set up and running pics of members taking part in past club activities. This will be off in a corner so as not to dominate the party. It is also in the works to have an introduction of our new 1983 officers and spouses.

We, the social committee, hope that the entire club will turn out and help to make this our best ever. 73-88



OTVARC '82

by WB7ADM

As I walked into the Portland post office this morning to deposit 233 OTVARC election ballots, the realization hit me that OTVARC '82 is rapidly drawing to a close. The end of 1982 will also bring to a close a most enjoyable year for Joanne and me. We have enjoyed the opportunity of meeting, working and playing with a great group of OTVARC members. For myself, the honor of serving as President of the finest Amateur Radio club in the Northwest will be a memory that I will carry with me always.

I would like to take this opportunity to express my sincere thanks to my fellow officers and directors for their super help and support during this past year, and a special thanks to all of you that jumped in and helped put all of our activities together. More important, a great big thanks to all of you that came out to our meetings and participated in the many club functions, and made all of our effort worthwhile.

As we move into a new OTVARC year, I am confident that 1983 will bring us an even bigger and better club year than we have enjoyed in 1982. If I could have one wish for next year, it would be for many more of our 233 members to discover the fellowship, enjoyment and satisfaction that Joanne and I have found through active participation in the finest Amateur organization going today. Having attended every club activity during this past year, I can say honestly that OTVARC has something for every member, regardless of your amateur or social interest. As Randy, our Vice President, put it in an article earlier this year, by jumping in with both feet, you can find out real fast just how much fun OTVARC can be. Come on in, the water is fine.....

A great starting point for participation is our annual Christmas party that is coming up on December 18th. This has been one of our more popular events of prior years, and this years party should be bigger and better yet! Your social committee is hard at work putting the finishing touches on all the plans, and it looks like a super event.

Our December meeting will be a social get-together with limited business items. We plan to open the meeting with a few short announcements, then go into a social session while the ballot committee counts the results of the election. After that, we will introduce your 1983 officers and wind up the evening with a super raffel.

In closing, I would like to extend my best wishes to all of you for a very happy holiday season and a great OTVARC 1983!

Monthly meeting-----Dec. 15th.
Christmas Party-----Dec. 18th.

'73
Dick



11/20 BUNNY HUNT RESULTS

1. Mark Walker, W7CLU
2. Dave Parker, W7LJN
3. Mike McQueen, KC7U
4. Mark Cattell, N7CRQ
5. Dale Justice, K7WWR

In fairness to Dale, who is a very good hunter, it should be made known that he was working under a few handicaps. At least that is what he claimed?? Fun for all. Come on out and hitch a ride. FUN-FUN-FUN



Skip Leonard, KC5BO, sent a letter of thanks to Senator Goldwater on his recent success in implementation of several bills which will aid amateur radio. It will be interesting to see if Skip gets a reply!!!

The care and feeding of Nicad batteries

Jerry Ziliak, KB6MT

Most of us have or will have rechargeable batteries in our projects and radios. As time progresses, the Nicad battery is becoming a popular source of storable energy. These batteries are here to stay, but they do have some shortcomings.

The most common fault is a battery that will not take a charge and electrically looks like a short; this will happen after a period of non-usage. The cure is simple. Using a healthy power supply, force enough current through the battery to bring the terminal voltage up to 1.5 volts. You may have to force as much as ten times the normal charging current. As the battery begins to take a charge you will see the current start to go down as the battery voltage rises. This process usually takes about ten seconds. When the voltage reaches 1.5 volts, charge as per the manufacturer's specs. Another typical problem is a cell that won't accept a charge and looks like an open cell. The cure for this (sometimes) is to charge in the reverse direction for five minutes at no more than 100 mA. After this, try to charge the cell as normal. If it still won't take a charge, use as a paperweight, coil winding form or circle drawing aid!!

How about a battery pack that won't charge or will not charge up to the proper voltage? Regardless of the pack voltage, it is made up of individual cells that are rated at 1.25 volts each. What happens is that one (or more) of the cells becomes discharged more than the rest. When charging is attempted, the low cell (or cells) is reverse charged with respect to all of the other cells; this makes the entire pack look bad. The solution is simple:

1. Use a sharp knife and cut the jacket off the battery pack to expose the individual cells. Do not cut the wire straps that interconnect the cells.

2. Measure the voltage of each cell. You will find one or more cells lower than the rest.

3. Discharge all the good cells one at a time with a 1 ohm resistor until each of the good cells' voltage drops to .9 volts.

4. Charge all of the cells one at a time at 50mA. for one hour.

5. Tape the cell pack back together with masking tape or electrician's tape. Charge battery pack per manufacturers instructions on battery pack. Normal charge is 10 percent of the discharge current/hour rate printed on battery for 16 hours. An example is: if a cell rating printed is 500mA. hour. you would charge at 50mA. for 16 hours.

If you have a constant current power supply, you can quickly charge any Nicad battery or battery pack by charging for four hours at 3.5 times the regular charging rate.

Normal charge rates at 16 hours for standard cells is as follows:

"AA" size cell — 50mA.

"C" size cell — 100mA.

"D" size cell — the same as "C" cell. Inside of the "D" cell is a "C" cell. The packaging is only larger. □

Are you a big gun?

A lot of intangibles go into designating an amateur as a "Big Gun" or even a "Little Pistol." If you're not quite sure if you or someone else belongs in one of these categories, this guide may be of value.

Big Gun

Clears his throat in a pileup and receives 40 over 9 report.

Is immediately called by name by DX station.

Writes critiques of technical articles in ham radio.

Knows beam heading of every DXCC country.

Has made high claimed scores listing in last 8 ARRL DX contests.

Speaks 14 languages well enough to get a QSL.

Receives QSL shipments from bureau by UPS.

Has 5BDXCC and 3 ZA QSLs on wall.

Little Pistol

Is last W2 to get through and is 40 minutes late for work.

Usually has to spell his name four times phonetically.

Had letter to the editor printed in QST.

Knows roughly where Japan and Europe are.

Was highest-scoring Novice in section in his first ARRL Sweepstakes.

Picked up a few dirty French words in WWII — uses them to insult VE2's on 75M.

Receives QSL shipments from bureau by first class mail.

Has 40M WAS and King Hussein's QSL on wall.

Lost Cause

Wastes 4 hours calling with no luck — finds cat strangled by irate neighbor with TV.

Is called colorful names by DX station for interrupting phone patch.

Has lifetime subscription to "73".

Turns 2-meter beam toward the other guy's house when working him through repeater.

Tied for fourth place in NYS in last Rhode Island QSO Party.

Has been spelling "amateur" wrong all his life.

Still gets QSL samples from "Little Print Shop".

Has RCC and ARRL membership certificates on wall.

WHAT'S YOUR HANDLE

Lots of us moved (up) from 11m and of course if you did and worked the AM channels, you had a handle of some kind. Well, we managed to dig up a few brave souls willing to divulge their past and they hope you enjoy the results.

Warren Knight, N7BIJ---Green Onion
 Brad Robbins, N7CDB---Heavy Duty
 Bob Tommy, N7CFM-----Iron Man
 Dennis Fisk, N7CME----Blue Arc
 Vince Slawik, N7CMV---Pan Fish
 Carl Henniger, KA7GHR-Wino
 Randy Cobb, KA7HJT----Anchorman
 Jack Smithson, KA7HOJ-(refused)
 Aaron Horenstein, KU7L--Pin Ball
 Al Berg, WB7SIC-----Mr. Peanut
 Jon Berg, WB7VWX-----10 Speed

How about a new list being made up? Give your editor a call and get your name? in lights.....



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.....

A special note of thanks to Dick Powers, WB7ADM, for giving us a great 1982 as club President. I, as well as a few other members, know what it takes of time and effort and Dick has certainly put forth both. There is a good deal of difference between being a club president and being a GOOD club president. The ability and desire to bring out new projects, follow through on committee jobs, take part in all club activities and just plain old making the majority glad that they belong is not commonly found in most people but fortunately for us, Dick has the stuff it takes. Considering that he manages a large dept. store, his time and effort is VERY meaningful. THANKS DICK!!!!

ODE TO THE ACTIVE MEMBER

Are you an active member
The kind that would be missed
Or are you just contented
That your name is on the list?
Do you attend the meetings
And mingle with the flock
Or do you stay at home the while
and criticise and knock?
And do you take an active part
to help the work along
Or are you satisfied to be
The kind that 'just belong'
Do you ever pay a visit to
a member who is sick
or leave the work to just a few
and talk about the "clique"
There's quite a programme scheduled
that I'm sure you've heard about
and we'll appreciate it if you, too
will come and help us out
So come to meetings often
and help with hand and heart
Don't be "just another member"
But take an active part
So think this over member
you know the right from wrong
Are you an ACTIVE MEMBER
or do you JUST BELONG?

FCC ISSUES BULLETIN ON NOVICE LICENSE EXAM RULEMAKING - PR DOCKET NO. 82-727

On the basis of a phone call to Washington, we touched on a new Novice testing proposal in our last issue. We now have received written confirmation on the rulemaking. The following is the verbatim press release as issued by the FCC.

"The Commission has proposed to have the amateur radio licensees who now voluntarily conduct and grade the Element 1(A) slow-speed telegraphy test for Novice Class license applicants in the Amateur Radio Service also prepare, conduct and grade the written test (Element 2) for Novice applicants. The proposal would eliminate the mail-back procedure, in which the volunteer examiner now mails the completed application form (FCC Form 610) to the Commission after the Novice applicant has passed the slow-speed telegraphy exam and waits for the Commission's Gettysburg, Pa., office to mail back the written exam for administration to the applicant.

"After administering the written test, the amateur operator mails the exam back to the Commission for grading. If a passing score (74 percent or better) is attained and the application is in order, the Novice Class license is issued. Since the knowledge and skills required are elementary, about 97% of the applicants pass. The Novice license covers limited operating privileges in the telegraphy mode only; no voice communications are permitted. By eliminating the mail-back step, the proposal would reduce the delays and inconveniences now experienced in obtaining Novice class licenses and substantially cut the FCC's costs of administering that licensing program. As many as 30,000 Novice examination papers have been mailed out by the FCC in a year.

"The Commission said the existing procedure is unnecessary and burdensome and its costs far exceed its benefits. Delays of up to eight weeks occur between receipt of the request for exam papers and issuance of a license or notification of failure to pass the test. Under current FCC procedures, amateur licensees of General Class or higher prepare the slow-speed Morse code test for Novice candidates. The FCC's proposal would enlarge the responsibility of the amateur licensees in the Novice licensing process and reduce the role of the FCC staff.

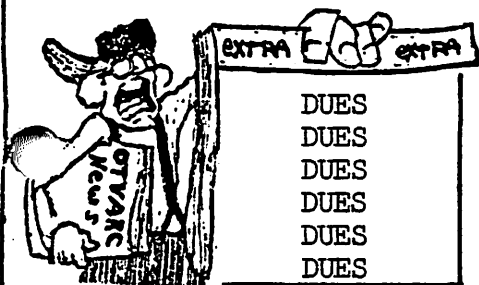
"Under the proposed rule change, the eligible amateur licensee giving the code test would prepare a written exam based on the syllabus for Element 2 in the FCC Study Guide for the Amateur Radio Operator License Examinations (Private Radio Bulletin 1035), administer it to the candidate and grade it. If the applicant passed, the Amateur licensee would certify that both examinations were completed successfully, and the application would be processed by the FCC as it is now. The proposal would require, as at present, that the examiner hold a General Class license or above (Advanced or Amateur Extra), be at least 18 years old and not be related to the applicant. The examiner would be required to keep a copy of each written exam paper for one year. "The Commission requested comments on whether requiring the volunteer examiner to retain the exam papers would result in any enforcement benefit. The public also was invited to suggest any alternative means to assure that the written exams are administered in good faith. The FCC said it is confident that eligible licensees would fairly test Novice candidates. The Study Guide syllabus is carefully prepared by the FCC staff and revised regularly, it noted, with extensive input from the amateur community. It expressed confidence in the competence of licensees and their commitment to the goals of the Amateur Radio Service.

"The Commission's action was partly in response to a 1981 petition by Dennis M. Dutton, Runda, N.Y., who proposed that eligible amateurs conducting Novice examinations be authorized to grade them, to speed the licensing process. The rule change, the FCC said, would be fully in accord with provisions of the Communications Act Amendments of 1982, which permit use of amateur licensees on a voluntary, unpaid basis to prepare and conduct amateur license examinations. Deadlines for filing comments and replies will be announced." (Unanimous action by the FCC Commissioners 10/21/82, by NPRM, FCC 82-457.) W5YI

This cable article is a reprint from a back issue of OTVARC. The carefully monitored test was done by Mr. Gordon West, WB6NOA and was reprinted from Worldradio. The test was done using 25 watts of input. It is asked of the members who may have conducted this kind of testing to make your figures known so we can print them in this rag. It would be interesting to see the results of a test with full legal input being used. Hope you find the article useful...

Cable Description Watts output

- 75 feet of RG-8/AU foam cable w/soldered connectors 20 watts
- 75 feet RG-8/U foam exposed to marine environment and sunlight for three years; swaged connectors 13 watts
- 75 feet cheap CB coax, RG-8/AU with soldered connectors 15 watts
- 75 feet new RG-8/AU coax with 17 watts crimped connectors intermittent
- 75 feet RG-8/X (mini), new, w/soldered connectors 17 watts
- 75 feet RG-8/X cable exposed to mast mounting 15 watts
- 75 feet RG-58/AU foam coax, brand new, and priced expensively 14 1/2 watts
- 75 feet RG-58/AU from local CB radio chain store, 75 percent braid 9 watts
- 75 feet RG-58/U CB coax found coiled in a closet, soldered connectors 9 watts



Every year at this time we put out a plea for members to pay their dues and every year there are a great many who forget, put it off or just don't pay attention. One year we even put out an SASE so the members could

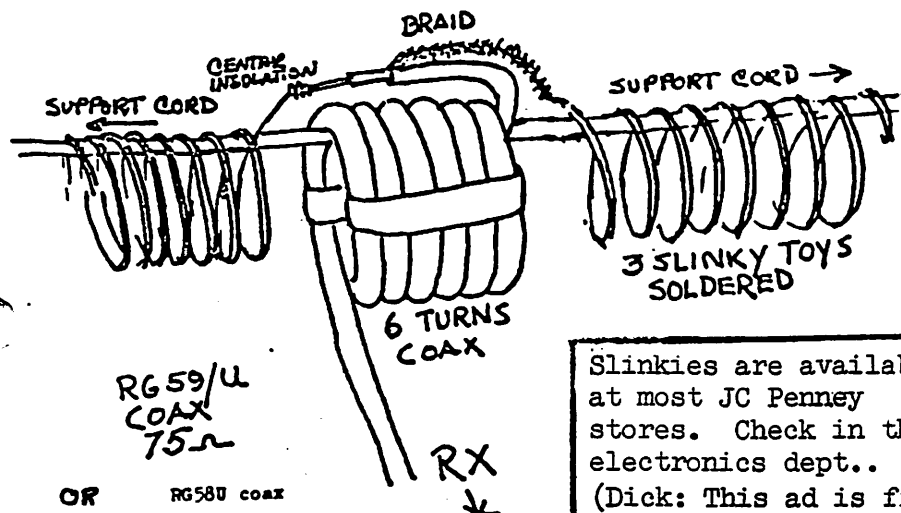
pay by mail. Which, by the way, was no more successful than our recent SASE voting attempt. It has become very apparent that we have had and continue to have members that just don't give a rip. Maybe this is a common thing with a club of our size? Anyhow, this year the by-laws of the club will be followed to the letter. Dues are to be paid by January 31. If you have not paid by that date you are no longer a member and if you wish to be re-instated the fee is the usual \$5.00 plus a charge of \$2.00 for roster relisting. The most important part of this message is that when you delay paying, it costs three of your officers a great deal of time! The roster must be changed, the mailing labels for the newsletter must be corrected and last but not the least is that the treasurer is forced to alter his records. He asks that you pay at the December or January meeting but better yet, by mail. It's not the money-it's the work!!!!!!!

TOYS FOR BOYS (and girls) A SLINKY ANTENNA THAT WORKS

Obtain 6 toy slinkies(steel, not plastic). You will notice that the ends are fastened together with small clamps. Loosen and remove these. Take 3 slinkies and solder them end to end. Use about 1/2 turn of overlap and use the clamps for mechanical strength(also use a very hot iron...a slinky is a good heat sink!). Do this to the other 3 slinkies, so that you have 2 giant coils, each about 3 times the length of a toy slinky.

Using RG59/U coax, make a set of 6 turns at the end with a diameter of about 3 1/2". Tape or tie the coils together, or mount on cardboard(the turns will be about 3 inches wide). Strip about 4" of outer insulation from the end of the turns, being careful not to damage the braid. CAREFULLY remove the center insulation and conductor from the braid, and then twist the braid to make a lead. Remove about 1" of insulation from the center conductor. Mount 1 coil on a hanger cord (as shown in the block diagram below) then the coax turns, then the coil (the other coil, sorry typo mja). Solder the braid lead to the end of one coil, and the center conductor to the end of the other coil, again using a very hot iron. Connect the other end of the coax to your receiver.

Mount as high as possible(near the ceiling) and try to keep clear of any metallic obstructions which can disrupt the field of the antenna. This will give good results on most every SW band...I know, this is what I use. (When mounted, try to spread the coils out as much as possible.



Slinkies are available at most JC Penney stores. Check in the electronics dept.. (Dick: This ad is free)

How to locate radio/television home interference

By Larry, AAR40E

1. Go to your main fuse or circuit breaker panel with a battery-operated transistor radio tuned between stations and listen for the noise. (If at night or in an enclosed room, be sure to have working flashlight with you.)

2. If the noise is present and corresponds to the disturbing interference, shut off all power to your premises by opening the MAIN circuit breaker, switch or other enclosed service disconnect. Do not attempt to remove cartridge fuses or operate exposed or open-type disconnects if physical contact with the electrical circuit is at all possible.

If the noise on the battery-operated radio stops, the source of interference is within your own premises.

Restore the MAIN circuit breaker, switch or disconnect.

3. Assuming the noise stopped while your electric service was off, you can now locate the noise source.

While monitoring the transistor radio as before with the noise present, open individual sub-main circuit breakers one at a time until the noise disappears.

You must now determine what has been turned off by going from room to room, checking outlets, appliances and lights for the absence of electricity. The offending noise source will be something on this circuit.

If the noise is steady, look for a running electric motor, fluorescent lighting fixture, light dimming switch, paddle fan with a silicon controlled rectifier in the circuit, or some other radio or television equipment.

Devices most commonly found on private premises that cause intermittent radio or television interference are: heating pads, electric blanket controllers, tropical fish aquariums, refrigerators (butter conditioners), door bell transformers and/or flashing decorative lighting.

4. It is important for your own benefit to have the offending device checked and/or repaired to insure normal safe operation.

5. The interference produced by these devices will travel through the house wiring out to the power line, down to the power transformer and through the service wires to each of the houses on the transformer. Therefore, if you don't find the source of interference in your house, it may be coming from one of your neighbors. If so, be diplomatic and ask for your neighbor's help. This will be the quickest and easiest way to solve the problem and keep on friendly terms with your neighbors.

Good luck.

— Florida Ship



HOWDY
COUSIN !

WELCOME TO NEW MEMBERS

A big bow and curtsy to our two new OTVARC hams. Hats off to Susan Benson, N7EPE and to Bruce

Junkin, WA7ELW. We would hope that both of you feel free to jump right in and get involved in a club activity.

UPGRADE: Congrats to John Bowman, N7DOB on his recent passing of the general class test. Nice going John. Hope you keep your cw going. Too many don't.

SOCIAL COMMITTEE: At a recent reformational meeting, the social committee picked up some aides and also appointed two co-chairpersons. Joanne Powers, WB7QFL and Paul Lucas, WB6SHR are now chairing the committee. We should look forward to some new & exciting doings in the future. We could use about two more female members to even out the committee. Any ladies out there want to help?? It's easy...

CONVENTION: Yes, we are having a convention. The dates are June 3, 4 and 5 and once again it will be in Seaside. NASA just informed us, in writing, that our "BACK BY POPULAR DEMAND" speaker is confirmed. Mr. Richard Underwood, who delighted us with his banquet program this past June, will entertain us once again. His program will be entirely different although at this time it is unknown what his presentation will be. We are currently in the process of deciding on major prizes as well as putting together a revised registration form. We will again reserve the Landmark Motor Inn for club members and perhaps a part of the City Center Motel as well. More later...

● **CHAIN BOOK STORES TO CARRY SOFTWARE.....** Two of the U.S. largest book sellers, Waldenbooks and B. Dalton are testing and have plans to expand marketing of personal and small business computer software. Waldenbooks has 800 outlets; D. Dalton, 600 stores nationwide. Both firms feel that they will have a market advantage over independent and chain computer stores in that they are located primarily in higher traffic locations and already carry (and sell in big volume) computer books. Waldenbooks say they sell an average of 5 books to a computerist and that it makes sense to have the software available for this customer also. Software, like books, is an "information providing source," they maintain.

★★★★★

● **TRANSMITTING COMPUTER DATA LONG DISTANCE** a 30-second tutorial.... A recent issue of High Technology had an interesting article on comparing transmission media. Computers communicate usually in one of four ways.... via twisted pair phone lines, coaxial cable, microwaves or fiber optic cable. A standard (voice grade) phone line can reliably carry 1200 bits per second (bps) for only a few miles before succumbing to attenuation and distortion, which is why most personal computerists stick with the lower 300 bps rate. Line impedance differences, noise, and signal leakage between lines wreak havoc with computer phone communication. Conditioned data lines that have added filters, amplifiers, signal repeaters and other components can handle up to 9600 bps. Coaxial cable cuts down "cross talk" (interference between lines) and can handle greater baud rates, but suffers the same loss and distortion that the "twisted pair" does. For high data rate and long distance computer communication, users turn to microwaves with land microwave links located "tens of miles apart" or to satellite links which can span thousands of miles. Microwaves (usually in the 2-12 GHz range) are susceptible, however, to severe weather, airplane.... (even flocks of birds) causing transmission signal interruption. But the ultimate in computer communication performance at present can be had from fiber optic transmission..... thin light modulated strands of filament. Since they operate at optical frequencies, they can carry data rates far greater than any electrical transmission medium..... to 200 Mbps and this can be increased as better light sources are developed. Fiber optic strands are small and far more lines can be carried in the same diameter bundle jacket, performance per mile is far superior and best of all, since they transmit light instead of electrons, they are free of electromagnetic interference and cross talk problems. Cable TV systems are also discovering the big advantages of fiber optic technology which will all but eliminate interference from radio waves..... something we hams are very concerned about!

W5YI



ESTATE SALE

Kenwood TR 7200A 2m fm txcvr. \$100.00
 Micronta regulated power supply. 13.8 vdc 2.5 amp. \$15.00
 Motorola speaker with bracket mount. \$3.00
 Realistic receiver DX-150A. \$35.00
 Heathkit HW 2A. 75m txcvr, SSB&CW. \$50.00

Randy, KA7HJT, is handling the sale. Call at 649-5066

For Sale: Converted Hy-Gain CB set. Works USB-LSB & AM. With mic and mobile bracket. Covers 10m from 28.500 to 28.815. A1, WB7SIC. 640-5456 \$55.00.....

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 will be especially nice for you.



STAN GRIFFITHS, W7NI

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Holiday Greetings
 and many warm wishes
 for the New Year.

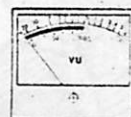
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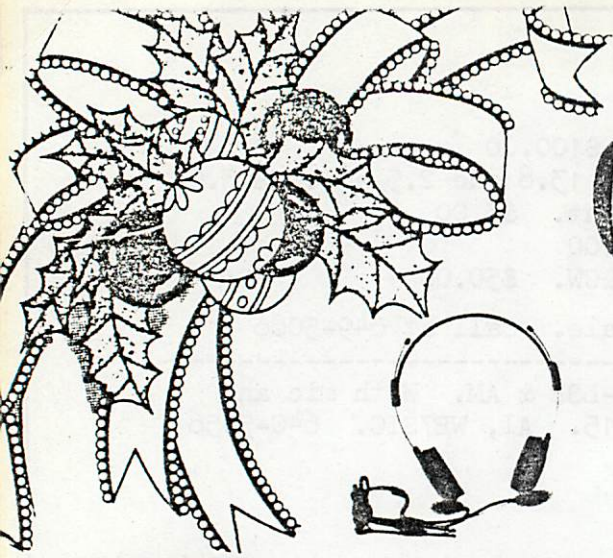
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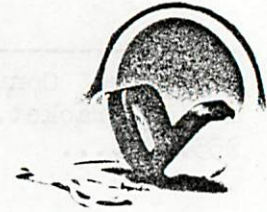
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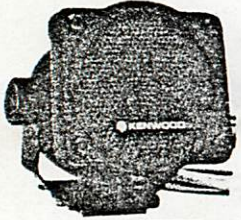
CHRISTMAS CENTER



PC-1 Patch \$62.95

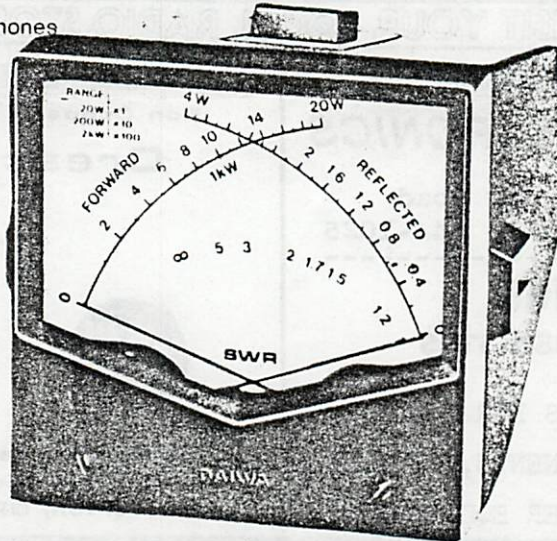


HS-4
Headphones (8Ω)
\$19.95

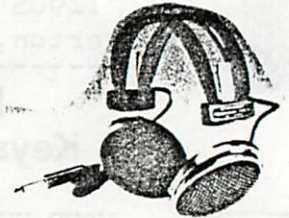


SP-40 \$25.95

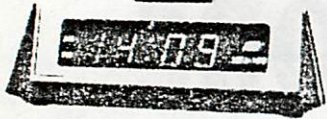
HS-6
Light Weight Headphones
\$29.95



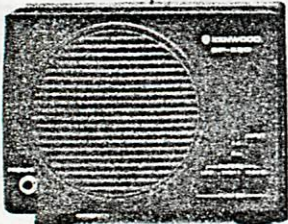
H. F.-S. W. R./Watt Meter
Regular Price.....\$69.95
Special.....\$49.95
WOW!!!



HS-5
Deluxe Headphones
\$41.95



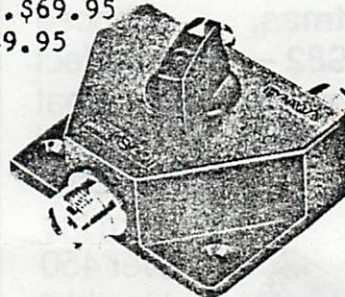
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OTVARC PUBLIC/EMERGENCY SERVICES

Your Public/Emergency Service group are actively working towards getting the club organized and trained for Emergency Services. We would appreciate it very much if you would complete and return the form attached if you are interested in participating in OTVARC Emergency Services. This form will give us vital information which could be used in an emergency and also give us an indication of your own qualifications and equipment.

A typical Emergency OTVARC would participate in would be Search and Rescue, Alert, and Practice Missions.

Search and Rescue would include communications while searching for a missing person or a downed aircraft.

An Alert would be setting up communications prior to a probable disaster situation. This would be primarily only a Natural disaster. This may include communication vital to the operation and communications for public service.

Practice missions will be an annual type of event held by State and Local Officials. The club itself also plans to have several practice missions to improve our own skills within the club. All practice missions are to prepare us for a real emergency.

If enough interest is show, classes for First Aid and Search and Rescue will be given.

The First Aid class given will include about twenty hours of basic First Aid training. This should be helpful to anyone who has not had much previous First Aid training.

The Search and Rescue course given would be a more extensive course lasting for ten consecutive Saturdays in which two are weekend outings. A few course topics are First Aid, Land Navigation, Man Tracking, ELT's, Survival, Helicopter Operations and several more. Upon successful completion of this course you would be issued a Oregon State Sheriff Certification card. In the State of Oregon this is required for field operations involving Search and Rescue and some Alert type missions. This type of training is primarily for field operations and may not be necessary for a stationary communication point. Overall, if you can afford a few Saturdays free this would be well worth the taking.

Also for those interested, an extensive class of locating Emergency Locating Transmitters (ELT's), which are set off by a downed aircraft, may also be given. This class would involve three or four evenings of instruction and a few weekend afternoons for "hands on" ELT hunts with regularly scheduled practice sessions. Equipment necessary for this type of activity would primarily include only a two-meter handheld, which is not really necessary for everyone.

If you have any questions please feel to contact me. If you have any comments or suggestions for the Public/Emergency Service group, please include them with your form and they will be gratefully received. Thank you for taking the time to fill out the form and all information on it will be strictly confidential.

Please send form to: OTVARC
c/o

Or bring to a meeting.

Mark Cattell, N7CRQ
9705 S.W. Hall Blvd., #15
Tigard, OR 97223

OTVARC

EMERGENCY SERVICE INFORMATION FORM

Name _____ Call _____ Home Phone _____

Street Address _____ Work Phone _____

City _____ Cross-Street for grouping _____

Can you be released from work quickly if called? Yes _____ No _____

Do you have any First Aid training? Yes _____ No _____ Level _____

If No, would you attend classes if offered to you? Yes _____ No _____

Do you have Oregon State Sheriff Certification? Yes _____ No _____

If No, would you attend classes if offered to you? Yes _____ No _____

In an Emergency situation, would there be any other group which may call on you for assistance in which you would go to? Yes _____ No _____

Do you have any physical disability or other condition which would limit your activity in an Emergency? Yes _____ No _____ Explain _____

Are you a smoker? Yes _____ No _____

In case of an Emergency, who should be notified? _____

Relationship _____ Address _____

City _____ State _____ Phone _____

Speciality Skills: Pilot _____ Mountain Climber _____ Hiker _____ Ski-Patrol _____

Scuba Diver _____ Registered Nurse _____ Doctor _____ Other experience _____

you have which may be of value in an Emergency _____

Do you speak any other Language? Yes _____ No _____ If yes, what Language? _____

Do you know Sign Language? Yes _____ No _____

Speciality Equipment you either have or would have access to: Four Wheel

Drive _____ Truck _____ Motorcycle _____ Boat _____ Plane _____ Snow Mobile _____

Camper _____ Mobile Home _____ Other _____

Check equipment you would have available to you in an Emergency situation.

450 Mhz: Handheld _____ Mobile _____ Base _____ Antennas? _____

220 Mhz: Handheld _____ Mobile _____ Base _____ Antennas? _____

2 Meter: Handheld _____ Mobile _____ Base _____ Antennas? _____

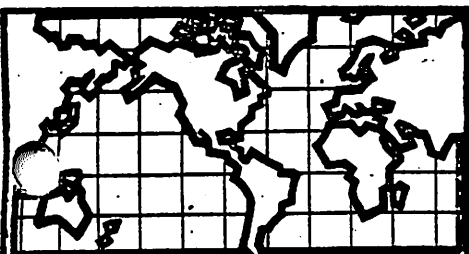
6 Meter: Handheld _____ Mobile _____ Base _____ Antennas? _____

3 to 30 Mhz HF Radios: Mobile _____ Base _____ Antennas? _____

Other Equipment: _____

Are you interested in helping in Public Service Events? Yes _____ No _____

If offered, would you be interested in a class on ELT locating? Yes _____ No _____



DX WORLD

O.T.V.A.R.C. CONTEST CALENDAR for 1983

- January 20th - 15 Meter RUSTY KEY Contest
- February 13th - Valentines Day SPECIAL EVENT STATIONS
- May 20th - Two Meter HAPPY HOUR Phone Contest
- June 24,25,26 - FIELD DAY
- August 19th - Two Meter HAPPY HOUR Phone Contest
- October 20th - Third Annual RUSTY KEY Contest (10m)

SOME WORDS FROM EXPERIENCE!!!!!!!!!!!!

Kerguelen Island is one of the most remote and challenging places on Earth. Located close to Antarctica, it is more or less south of Africa, with an exact position of Latitude 49 Degrees South, Longitude 70 Degrees East. Encyclopedia Americana describes it as, "...rugged, with lofty masses of basalt and other volcanic rock." The same source goes on to detail the climate as, "...windy, rainy, and tempestuous," and vegetation as, "Arctic."

It is considered one of the more difficult DX contacts by those of us who pursue that particular fascination of amateur radio. Stations operating from Kerguelen are few and far between, and their QSL card is considered a prize. Persistence, attention to detail, and accuracy are important in QSL'ing. It is hoped that the following will prove both interesting to you and also that it will help you avoid making the same mistake that I did.

It was fortunate that I could work FB8XY, Chris, on 22 August 1980 through the W7PHO Family Hour net on 20 meters. Chris suggested a direct QSL and I copied his manager as being F6CIY. My card was in the mail the following morning, complete with SASE and IRC's.

Most QSL managers are VERY good, but I have learned to be persistent as a few of them are notoriously slow. After having heard nothing for a year, during August 1981 I sent off another QSL to the manager, including more IRC's.

By August 1982, a full two years after the contact, it seemed as if FB8XY had escaped me. The W7PHO Family Hour came through again, however, and provided me with Chris' full name as well as his home address in France! My third attempt (more IRC's!) with a direct QSL to Chris proved to be a success!

On November 7, 1982 it finally arrived. FB8XY had responded, signing his card with a simple, "73, Chris." But perhaps more importantly, his card read, "Please QSL Direct or vis MGR. F6CIU."

I had made a big mistake. During our QSO, or during my excitement immediately following the contact, I had obviously recorded his manager's call sign incorrectly. While this proves that it pays to be persistent when going after a rare card, it would also seem to indicate that it would be wise to monitor a few QSO's following your contact just to make sure that all of the pertinent information is correctly recorded. Just think of all the money you might save!

Warren Knight

73 N7BZT

Warren: Nice article you submitted. Just remember that when you send your card for T32AL-T32AM that you include a green stamp, one IRC and an SASE. Thanks,
WB7SIC--QSL MANAGER

Fire ravages HF band

The phone portion of the 20-meter band was hit by a freak fire last week that destroyed over 10 kiloHertz, according to FCC special frequency engineer, Marvin-Larpsnogg.

Apparently, the fire originated on about 14.280 MegaHertz following an unusually long series of QSOs by an undetermined number of California stations running high power and extreme modulation compression. Several A0 carriers were observed at the same time and may have contributed to starting the blaze.

"The fire just spread up and down the band", Larpsnogg said during an interview on "Transmit to the Nation". "We had to turn off all the HF bands from 40 through 10-meters in an attempt to smother the flames", he said.

After nearly three hours, the FCC had the fire under control. Most HF bands were backed to normal use the following day; however, 20-meters will be closed for an undetermined number of weeks.

Sandy Ampersand, League of Radio Relaying Americans spokesperson, said the fire was the worst such incident since the infamous 5-meter holocaust completely wiped out that band for all time in 1945.

- Richardson Wireless Klub

Want to make a hit with a DX station? Try signing off with him in his own language. The little ditty below just might aid in insuring a QSL card...

Thank you very much for the QSO

- Danish Mange tak for QSO
- Dutch Dank u wel voor de QSO
- Finnish Kiitos oikein paljon QSO: sta
- French Merci Beaucoup pour le QSO
- German Danke sehr fur QSO
- Hawaiian Mahalo nui loa no ka walaau
- Indonesian Banjak terima kasih atas QSO
- Irish Go raibh mile maith agat do'n QSO
- Italian Molte grazie per la QSO
- Norwegian Mange takk for QSO
- Russian Spasibo za QSO
- Spanish Muchas gracias por el QSO
- Welsh Diolch yw fawriawn am y QSO

- Southern Calif. AR Computer Club



CLUB LIBRARY

ARRG is planning a huge flea market to be held the latter part of February and it could be an effective outlet to make some green stamps. This would be a blow to those people, both in the club and outside, who were kind enough to donate for us. BUT-non-use predicates a decision on what to do with all of it. The list is partial in that we have a large number of '73' mags that go back to the start of the publication. I hope that we can save our library!

MEETING QRM

WE NEED TWO MORE CLUB JACKET SALES
BEFORE WE REACH THE REQUIRED 10 TO
SEND IN OUR ORDER. IF YOU HAVE
BEEN THINKING BUT NOT ACTING, DO IT
NOW. CALL WARREN, W7JDT, AND ORDER
ONE.

PERIODICALS

QST -- Complete issues for all years 1927 through 1942 (16 yrs)
 " " " " " " 1947 " 1954 (8 yrs)
 Nearly complete for years 1955 " 1958 (# yrs)
No issues for WW II " 1943 " 1946

CQ — 1946 through 1961 — complete for 6 yrs. and nearly complete for another 10 yrs.

Wireless Age — May 1918

American Radio Defense — Feb. 1941

ARRL PUBLICATIONS

The Radio Amateur's Handbook	—	Third Edition	—	1927
" " " "	—	Fifth " "	—	1929
" " " "	—	Ninth " "	—	1932
" " " "	—	Tenth " "	—	1933
" " " "	—	Eleventh " "	—	1934
" " " "	—	Twelfth " "	—	1935
" " " "	—	Thirteenth " "	—	1936
" " " "	—	Fourteenth " "	—	1937
" " " "	—	Fifteenth " "	—	1938
" " " "	—	Twentieth " "	—	1942
" " " "	—	Twenty-first " "	—	1944
" " " "	—	Thirty-second " "	—	1955

The A. R. R. L. Antenna Book — Second Edition — 1949
 " " " " — Twelfth " — 1970

Hints & Kinks	—	Volume Two	—	1937
" " "	—	" Three	—	1945
" " "	—	" Four	—	1949
" " "	—	" Five	—	1954

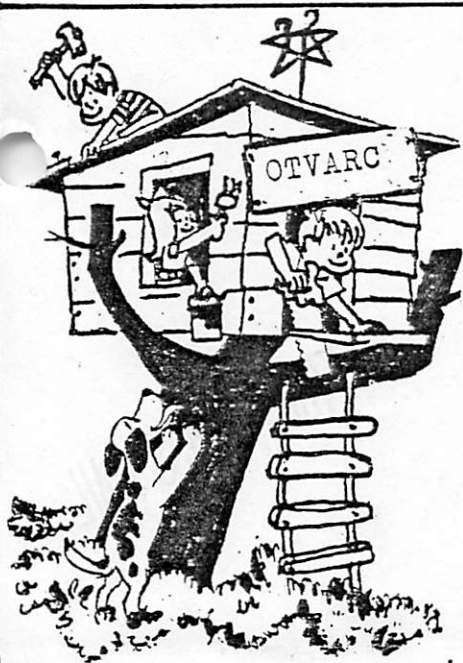
Pacific Radio Publishing Co.
Radio Limited
Editors & Engineers

-- These three companies published the "Radio" Handbook. They also published "Radio" magazine in early years.

The Radio Handbook	—	Second edition	—	1936
" " "	—	Third "	—	1937
" " "	—	Fourth "	—	1938
" " "	—	Fifth "	—	1938
" " "	—	Sixth "	—	1939
" " "	—	Tenth "	—	1946
" " "	—	Eleventh "	—	1947
" " "	—	Twelfth "	—	1949

The RADIO Antenna Handbook	--	1936
Antenna Manual -- by Woodrow Smith	--	1948

The Radio Manual -- by George E. Sterling -- Third Ed. 1938
The Radio Engineers Handbook -- By Frederick E. Terman -- 1943
Radio Handbook -- by William (Bill) I. Orr -- 18th Edition --
Basic Electronics -- Marcus & Gendler -- 1971
Transmission Lines, Antennas and Wave Guides -- King, Nimmo and Wing -- 1945
(This is an excellent text, even though old -- you need to
know some mathematics for this)
UHF Antennas, Converters and Tuners -- By M. S. Kiver -- 1953
Transistor Handbook -- William D. Bevitt -- 1956
Transistor Circuit Handbook -- Coyne Elect. School -- 1956
G. E. Transistor Manual -- 1959
Bell Telephone Laboratories -- Glossary For Telephone Transmission -- 1930
-- Carrier Current Telephony and Telegraphy -- 1921
Radio Amateurs' Mobile Handbook -- William I. Orr -- 1953



"ARRG" EMERGENCY CODES
147.92/32
South Saddle

- *910 Clark County
- *911 Emergency
- *912 PDX Dispatch
- *913 OSP
- *914 Wash. Co.
- *915 Mult. Co.
- *916 Clackamas Co.
- *917 Air Wx.
- *918 Weather
- *919 Road Report
- *921 Yamhill Co.
- *922 Tillamook Co.
- *929 Time

Disconnect

THESE CODES ARE OPEN TO ALL TO USE. The 911 emergency # will allow a 15 minute use of the rprr.. These numbers are all third party traffic so please clear the rprr legally. Time, date and name of the third party. Clear with W7LJN. This code feature of the rprr. is of value to many people. Please use it properly.

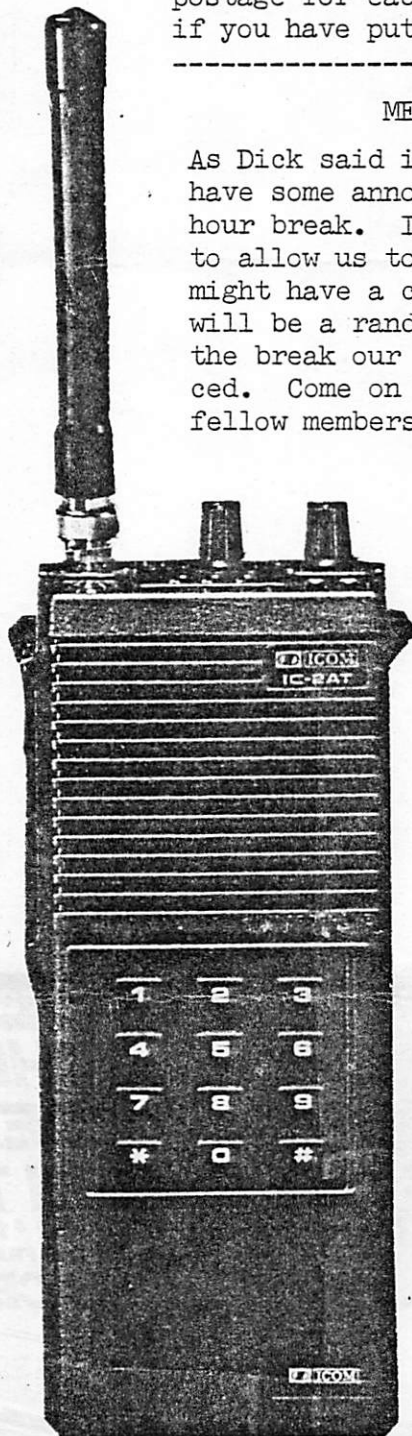
73 from ARRG

VOTE and BALLOT

If you forgot to mail your voting ballot in and are attending the Dec. meeting, please bring it with you. If you aren't attending, you still have time to mail it. If you have no intention of voting please keep in mind that SOMEONE had to type up the ballot, make over 200 copies, fold same and stuff over 200 envelopes, seal, affix address labels and lastly, put on 40¢ of postage for each member. (times 235!!) Please, if you have put it off, do it now.

MEETING PROGRAM

As Dick said in a prior page, the meeting will have some announcements made and then a social hour break. If we are able to get the PGE chief to allow us to open up the big sliding doors, we might have a continuous slide show going which will be a random mix of club activities. After the break our new 1983 officers will be announced. Come on out and get to know more of your fellow members. It should be great fun.....



ICOM

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THE MAJOR PRIZE TO BE GIVEN
AWAY AT THE XMAS PARTY WILL
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ICOM 2AT-3AT or 4AT. WOW!!!

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NUMBER OF LESSER VALUED ITEMS.
PLUS-SOME PRIZES FOR THE
LADIES THAT HAVE NOTHING TO DO
WITH RADIO. THE PRIZES THAT
IS! HOPE TO SEE MOST OF YOU
THERE FOR A GREAT EVENING.....

Circulation:275

Editor: Al Berg, WB7SIC

Copy: Dennis Boyd, KC7BE

73-88 and MERRY CHRISTMAS

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Graduate of Benson to represent nation

By CARYN SHETTERLY
Correspondent, The Oregonian

Eighteen-year-old Todd Fujinaka, a 1982 Benson High School graduate, will represent the United States in the industrial electronics category of the International Skill Olympics next August in Linz, Austria.

Todd is a member of the Vocational Industrial Clubs of America, a national organization for students in trade, industrial, technical and health occupations education. He is a freshman majoring in engineering at Massachusetts Institute of Technology in Cambridge.

A four-year honor student at Benson, Todd won a gold medal last year at the organization's United States Skill Olympics. In an on-the-spot five-hour contest, he built a "humane" digital alarm clock that was activated by a cough or a clap of hands. The clock turned on appliances, radios and lights when started by human sounds.

For the international trials, Todd built a measuring meter that "you wouldn't understand even if I explained it."

Todd has been interested in ham radio operation for several years, and Ben-

son electronics instructor Bill Ergens said he thought Todd's experience put him naturally ahead of other students.

"He's very talented," Ergens said. "Todd is going to be outstanding in his field."

Ergens added that Todd was an excellent student in technical as well as liberal arts classes at Benson.

Industrial electronics, he explained, involves building electrical circuits with operational amplifiers. Digital and logic circuits are the result of industrial electronics, he said.

David Hewitt, VICA adviser at Benson, said Skill Olympics competitors receive schematic drawings and some tools to work with. Projects are difficult, he said, because they can easily be misinterpreted.

Todd's father, George, said his son received a scholarship from Tektronix Inc. to study at MIT.

"I'm not sure where his interest in electronics comes from," Todd's father said. "I don't have any interest in it." Fujinaka is a retired tree pruner.

Todd, an Eagle Scout in Troop 117, has a 17-year-old sister at Lincoln High School.



TODD FUJINAKA

Fourteen nations will send students to the International Skill Olympics in Austria. The Olympics also will include competition in cosmetology, bricklaying and machine trades. All competitors will be under 25 years old.

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